CLAIMS

1. One or more computer readable media having stored thereon a plurality of instructions that, when executed by one or more processors, causes the one or more processors to perform acts including:

selecting a portion of a digital good;

selecting another portion of the digital good, wherein the other portion is to be encrypted; and

using the portion as a substitution box (S-box) when encrypting the other portion.

- 2. One or more computer readable-media as recited in claim 1, wherein the entire digital good is to be encrypted.
- 3. One or more computer readable media as recited in claim 1, wherein the using comprises determining, for each group of bits of the other portion, a new group of bits based on the portion.
- 4. One or more computer readable media as recited in claim 1, wherein the using comprises using bits of the portion to determine a substitution subportion for each sub-portion in the other portion.
- 5. One or more computer readable media as recited in claim 4, wherein the sub-portion comprises a byte.

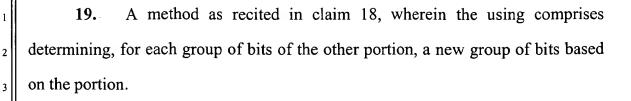
1	6. One or more computer readable media as recited in claim 1, wherein
2	the digital good comprises a software program.
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4	7. One or more computer readable media as recited in claim 1, wherein
5	the digital good includes video content.
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7	8. A method comprising:
8	selecting a segment of a digital good;
9	selecting another segment of the digital good, wherein the other segment is
10	to be encrypted using an encryption process; and
11	mapping, as at least part of the encryption process, values within the other
12	segment to new values based on the segment.
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14	9. A method as recited in claim 8, wherein the entire digital good is to
15	be encrypted by the encryption process.
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17	10. A method as recited in claim 8, wherein the mapping comprises
18	using the segment as a substitution box (S-box) during the encryption process.
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20	11. A method as recited in claim 8, wherein the mapping comprises
21	determining, for each group of bits of the other segment, a new group of bits based

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on the segment.

- 12. A method as recited in claim 8, wherein the mapping comprises using bits of the segment to determine a new value for each value in the other segment.
- 13. A method as recited in claim 8, wherein the digital good comprises a software program.
- 14. A method as recited in claim 8, wherein the digital good includes video content.
- 15. A method as recited in claim 8, wherein the encryption process uses a Data Encryption Standard (DES) cipher.
- 16. One or more computer-readable memories comprising computer-readable instructions that, when executed by a processor, direct a computer system to perform the method as recited in claim 8.
 - 17. A method comprising: using at least a portion of a digital good as a substitution box (S-box).
- 18. A method as recited in claim 17, wherein the using comprises using the portion of the digital good as a substitution box to encrypt another portion of the digital good.



- 20. A method as recited in claim 18, wherein the using comprises using a bit pattern of the portion to determine a substitution value for each value in the other portion.
- 21. A method as recited in claim 17, wherein the digital good comprises a software program.
- 22. A method as recited in claim 17, wherein the digital good includes video content.
- 23. A method as recited in claim 17, wherein the using comprises using the substitution box as part of a Data Encryption Standard (DES) cipher.
- 24. One or more computer-readable memories comprising computer-readable instructions that, when executed by a processor, direct a computer system to perform the method as recited in claim 17.
 - **25.** A production system, comprising:
 - a memory to store an original program; and
- a production server equipped with a substitution box (S-box) protection tool that is used to augment the original program for protection purposes, the

production server being configured to identify a first segment in the original program and use the first segment as an S-box when encrypting a second segment of the original program.

- **26.** A production system as recited in claim 25, wherein the production server is further configured to use the first segment as an S-box by determining, for each group of bits of the second segment, a new group of bits based on the first segment.
- 27. A production system as recited in claim 25, wherein the production server is further configured to use the first segment as an S-box by using bits of the first segment to determine a substitution value for each value in the second segment.
- 28. A production system as recited in claim 25, wherein the production server is to encrypt the entire digital good.
- 29. A production system as recited in claim 25, wherein the digital good includes one or more of: a software program, audio content, and video content.
- 30. A production system as recited in claim 25, wherein the production server uses a Data Encryption Standard (DES) cipher to encrypt the second segment.

31. A client-server system, comprising:

a production server to use a portion of a first digital good as a substitution box (S-box) in encrypting at least a portion of a second digital good to produce a protected digital good; and

a client to store and execute the protected digital good, the client being configured to evaluate the protected digital good to determine whether the protected digital good has been tampered with.

- 32. A client-server system as recited in claim 31, wherein the first digital good and the second digital good are the same digital good.
- 33. One or more computer readable media having stored thereon a plurality of instructions that, when executed by one or more processors, causes the one or more processors to perform acts including:

decrypting at least a portion of a digital good by using another portion of the digital good as a substitution box (S-box).

- 34. One or more computer readable media as recited in claim 33, wherein the decrypting is based at least in part on a Data Encryption Standard (DES) cipher.
- 35. One or more computer readable media as recited in claim 33, wherein the decrypting comprises using bits of the other portion to determine a substitution value for each value in the portion.

36. One or more computer readable media as recited in claim 33, wherein the digital good includes one or more of: a software program, audio content, and video content.

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